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# TO THE RIGHT NOBLE AND WOR-

thy minded industrious Gentle-  
men, and others who are any way

addicted vnto MAGNETICALL

*Knowledge.*



O it is that for a long time I  
haue bin greatly delighted in  
the contemplation of the  
properties and vertues of this  
admirable creature of God  
which we call the *Magnet*, or  
*Lodestone*. And as my lei-  
sure and occasions haue ser-  
ued by conference from time to time, with the  
skilfullest *Navigators* of our age, by reading all the  
Treatises (as came vnto my knowledge) of such  
as had written thereof, and therewithall trying by  
practise the truth of those things which I doubted  
of, and lastly finding some things by my owne ex-  
perience of good importance by others not at all

A 2

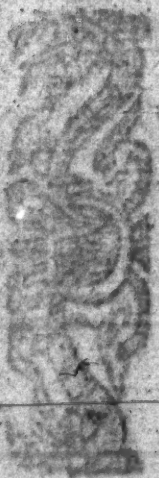
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Magnetical Advancements.

A Treatise containing

Doctrines and Principles upon

STONE OF WISDOME & OTHER

TRICKS AND ADVANCES

CONCERNING THE

WISDOME OF THE

A



- Fol. 18. 19. The 1. 2. 3. 7. 1 line, the  
Fol. 20. *Doctor Gilberts.*  
Fol. 21. Every part and peece of a Loadstone,  
Fol. 27. If a wyer be touched &c. 5 lines.  
Fol. 30. & 31. It is to be observed in the fa-  
lution of a Magnet &c. 16 lines.  
Fol. 36. For although that naturally &c. 9 lines.  
Fol. 51. & 52. Also if a Magnet be fastened &c.  
4 lines.  
This practise is profitable for Travellers &c.  
Fol. 62. 64. The best way to touch &c. 11 lines.  
And some have thought it better &c. 14 lines.  
Fol. 66. Set two Loadstones &c. 3 lines.  
Fol. 71. An Adamant doth loose much of his  
vertue &c. 3 lines.  
Fol. 72. That 10. Chapter (onely a few words  
chopped and changed) is whole mine.  
Fol. 83. And for this cause the Adamant &c.  
3 lines.  
Fol. 89. A peece of Steele well tempered &c.  
2 lines.  
The two next are his owne, and very absurd.  
Fol. 90. Now it is to be observed &c. 10 lines.  
Fol. 95. The needles and compalles &c. 14.  
lines.

So that it cannor but seeme to any indifferent per-  
son very strange, that *Doctor Ridley* would publike-  
ly so traduce mee, and that by name, and so con-



mentioned. The cheife of these which I iudged profitable for common vse I did set forth in a small Treatise intituled *Magnetick & diuersities*. And although of mine owne louing affection towards such (as yee are) I haue bin alwaies ready to further you in these knowledges the best I could, yet I doe assure you faithfully, that diuers of good iudgment, learning, and eminent place, (vnto whom I communicated my experiments) very vehemently vnto me perswaded my publishing of them.

A copie of this Treatise being by stealth written out of my Manuscript, by one that vnderstood it not, and by that meanes committed diuers errors, this *Doctor Ridley* deuoured some of them, and by his endeavouring to square my propositions according to his owne conceipts, and so superciliously to controll (and censure the things which he vnderstood not) he hath misse of the truth very farre and wide, and hath herein wronged both himselfe, and mee, and his readers, but most of all his belecuers; and yet such is his kinde disposition, that he hath purloyned out of the scambled copie of my Treatise, for to adorne his owne Treatise of *Magnetick bodies and Motions* all these that follow; as in his Treatise,

*Fol.* 7. The hilly knobbes, and angulous parts &c. for 17 lines.

*Fol.* 8. The greater stones &c. 3 lines.

*Fol.* 9. Steele and yron &c. 4 lines.

*Fol.* 10. The 14. 17. 18. 19. figures are mine.

*Fol.*



that which was properly mine for his owne (as  
aforesaid) but also hee tooke vpon him (although  
very ignorantly) to confute some of mine vnder  
these termes, and this onely out of a stolne Manu-  
script. Whereas all men know that Manu-scripts  
ought to be vncontrould vntill the Author hath  
published them, who may alter and change things  
in the meane space as he thinketh good.

He stileth himselfe principall Phisition vnto the  
Emperor of *Russia*, the which many men wonder  
at, being so yong as he than was, and supposed that  
he went ouer only as Phisition vnto our Merchants  
there, that he should in so short a time become that  
Emperors principall Phisition. If he were, he sped  
better then *Bomelius* did, who is said to haue died  
there in that cold climat of the extreamest hot  
kinde of Calenture.

Out of all question, somewhat it is more then  
ordinarie, that maketh him of so hauty a spirit, so  
to braue the world with such prodigious assertions  
of his Magneticals, in, and about the Moone; the  
earths Magneticall circular Motions, and his paltry  
abusing of the holy scriptures to support his luna-  
ricke fictions vnder the name of Magneticall Phi-  
losophie.

There are yet two texts of Scripture, which it is  
a wonder how they escaped him; the one is in  
*Iosuah* 10. ver. 12. and the other is in *Esey* 38.  
ver. 8. In the one: That the Sunne and the Moone  
stood still the space of a whole day: The other,  
that the shadow in *Achaz* diall went backe 10 de-  
grees,



temptation is frivolous *Animaduersions*, and could neuer. Upon my name, no not so much as once to acknowledge it in all these things which he hath by stealth learned of mee, and inserted into his *Magneticall Motions* for his owne, the which with their consequences if you withdraw from his Treatise, you will leaue his motions very dull. For except this *Ridley*, had ploughed with my Heifer, hee had not knowne my Riddle. *Sic vos non vobis.*

In my aduertisements indeed, I made mention that some body had in this manner dealt euilly with mee, and I reprov'd certaine faults that some body had committed, especially in the fundamentall *Magneticall* heare-sayes of misframing of the true North and South, in Magnets and Magneticall bodies, and in making the Inclinary needle with the one end heavier than the other, and some others: But these two especially, for because they doe draw on many others, as they doe both in his Booke, and wheresoever they shall be admitted, they will increase like a snow-ball, waxing still greater as they goe, and all his dawbing of them with his vntempered mortar in his silly *Animaduersions* do amend the matter nothing at all, but make it farre worse than before. For the common good, I might not let them passe vnreprov'd, and yet I would not publicly name him, but vsed this word some body. The like him selfe hath, viz. Some say, some labour to cleare, some thinke &c. in his booke meaning mee, being not contented onely to vsurpe that.



of the Globe of the earth circularly, by Magneticall vigour, in the which hee doth so gallantly triumph; is but an idle figment, and a meere *Chimara*: but his definition of Magneticall bodies is very futable vnto it; viz. very monstrous; namely, That wee define to be a Magneticall body, which doth remaine and place it selfe in one place, or kinde of situation naturall, not alterable, as all starres doe, and the great Regent globes of *Saturne*, *Mars*, *Iupiter*, the *Sunne* and the *Earth* doe: or such, as with respect and attendance follow other globes, as the two starres which support *Saturne*; the foure attendants vpon *Iupiter*, lately discovered by the truncke-spectacle; the two trauersers about the *Sunne*, called *Venus* and *Mercury*; and the *Moone*, which doth follow or goe about the earth, and respecteth the same alwayes with one Pole, and therefore hath a peculiar Magneticall vertue, that guideth her in this kinde of situation.

*Auditum admittit, risum teneatis amici,*

Any man that considereth this goodly definition, being the foundation and ground of his Magneticall discourse, and the very first sentence of his booke, and many the like fancies in his Motions and Animaduersions will easily discern what his Magneticall skill is, and what a vanity it were for me, to spend any precious time to confute in particular such vnreasonable and senselesse opinions, which haue more neede of *Helliceras* to purge them out of his head, then Arguments to confute them in his booke. And in his friuolous animaduersions



gress, and the Sunne in the skie returned 10 degrees by the which he was descended.

For it is his guise to make contrary conclusions vnto that which the Scriptures affirme, and therefore blame him not, if he doe so despise *Aristotle*, who neuer taught any such Logicke.

Now therefore that yee may in few words vnderstand the vnt ruth of the earths *Magnetick Motion*, that is so mainely emblazoned by him, and the weaknes of my *Animaduersors* Magnetick skill, you must know, that the Magnetick Motion is a naturall inclination of two Magnets or Magnetickall bodies, that may freely moue, respecting the one the other within the Orbe of their forces with their convenient ends, that is to say, the North end of the one alwaies respecting the South of the other.

If the two Magnets or Magnetickall bodies be of like quantitie, forme, and goodnes, their Motions will be of like quicknes of the one towards the other; but if they differ in any of these, their Motions will be so much the slower.

Now forasmuch as all Magnetickall motions are alwaies respectiue of the one Magnet or Magnetickall bodie towards another, it followeth by necessarie consequent, that no Magnet or Magnetickall body, can either moue, or be moued of it selfe, but is vtterly voide of all intrinsecall or selfe-Motion, the true and onely cause of his Motion being euermore without it selfe.

And therefore mine *Animaduersors* selfe-motion  
of



before the like, which may not bee performed without feare of a greater danger, with diuers other reasons like vnto these.

But although such as these are, may goe current in a mechanicall Trades-man shop, yet they are very insufficient to bee allowed for good, by men of learning, and Christians by profession, who know right well, that it is great folly for to oppose that which we call difficult, vnto an omnipotent power; *Who stretcheth out the heauens like a curtaine, and spreadeth them out as a tent to dwell in, Esay 40.ve.22. He stretcheth out the North ouer the empty, and hangeth the earth vpon nothing, &c. Iob 26. ver. 7.*

And that which we call Nature, it being nothing else but Gods ordinance; there can bee nothing contrary, but all things agreeable vnto nature, which God hath ordained. But God hath ordained the motion of the Sunne, Moone, and Stars (as afore-sayd) and the vnmooueablenesse of the earth; therefore this is more easie, and more agreeable vnto nature; which is preserved onely by obeying Gods ordinance, and heerein onely that consisteth, and hath her being. And that the earths magneticall vertue hath no power at all to performe or help any such motion, as is also before made manifest.

But that mine Animaduersors magneticall skill is ascended vp into our Moone it selfe; yea, and yet higher, farre beyond the Moone, vnto the other Planets and Starres, and into euery one of them, this is such a point of his Magneticall Philosophie, that would make Stupidity it selfe astonished to heare of it.



seeking to maintaine his former errors, and he being so snappish to haue them amended, hee maketh them ten times worse then they were before, and far more palpable : But my retricall Animaduersion must be ruled by reason, and afford all those his patience that do beleue the holy Scriptures, which flatly doe denie the Earths motion, and affirme the motion of the Sunne, Moone & Stars, in the whole current thereof, as *Psal.* 19. 6. 104. 5. *Iosua* 10. 12. 13. 14. *Esey* 38. 8. &c.

Also that hee will giue men leaue to credit their senses, in matters subiect vnto sense, and not repugnant vnto reason ; and that he will not be offended with those who do pitifully laugh at his Magneticall Astronomy, with those topsirruy motions, like

*Voluitur Ixion, & se sequiturque fugitque.*

For although some great learned men in those Sciences, haue vsed the supposed motion of the earth, for an Hypothesis, seruing their ready calculations ; as they haue done also their supposed Epicycles, for the motions of the Planets and their courses : yet that is no reason for to auouch them for to be in themselves true and reall things, according vnto some mens vaine fancies, who doe argue after this sort.

It is an easier matter, and more (as they say) agreeable vnto nature, for so small a body as the globe of the Earth is in comparison of the heauens, to moue circularly in the space of foure and twenty houres, then it is for the huge Vniuerse so to doe ; and that which is done with lesse hazard, is to bee preferred before



*est.* And forasmuch as his animaduersions containe nothing at all, of any truth and importance against mine Aduertisements, but onely many ignorant, many wilful mistakings, contradictions & canillings, and maintainings of his former absurdities, the which the more they are stirred by him, the more they stinke. I will content my selfe with this breefe discouery of this Animaduerfor, and his animaduersions, and so to leaue him for this time peeping in his truncke-spectacle at his celestiaall magneticall regent globes, with his proud motto:

*Non sufficit orbis.*

To try whether he can yet finde vs heere hence any more new glorious dreames, wherby he may either encrease the number of the hundred of merry tales, or els augment the noble history of *Huyn of Burgis*.

And whereas he chargeth me opprobriously for to haue in my Treatise nothing of mine own, but all of other mens, and some of his: mine answer is, that he knoweth in his owne conscience (if he haue any) that hee speaketh a manifest vnt ruth, contrary vnto his owne knowledge in both. Yea, I am verily perswaded, that if he would but giue his owne conscience, leaue to speake out, it would ring him a tale in his eare vnto this effect: That he himselfe knoweth right well, that where my knowledge (euen such as it is) in these matters faileth: all the store of skill that he hath, cannot aduance it, no not so much as one strawes bredth, notwithstanding all the great countenance hee setteth on it, with his swelling titles of his Magneticall bodies and motions, and his



There was (as the Poets faine) a certaine King of *Phrygia*, that had a gift given him of the Gods, at his owne request, that whatsoeuer he rouched with his body should be gold, but by that meanes being ready to starue, because his victuals were also turned to gold, he entreated earnestly that he might surrender his gift.

It seemeth that mine Animaduerfor endeauou-  
reth for to make shew, that he hath a stranger gift; namely, that by his very lookes (for his lookes, with his Truncke-spectacle, are his meanes) he can turne all things to be Magneticall, that hee doth earnestly behold; He hath scowred the Heauens already, euen from the one end vnto the other, that both Planets and Stars are become magneticall in his head; what tumultuous stirre may they breed there, no man can tell, it is his safest way to confine his Magnetismes vnto the earth, as their naturall seat, and not suffer them to clamber vp into the skies, where they haue nothing to doe, lest that infinite dispersion of his magneticall knowledge, doe in the end ouercharge his braine, and make him magnetically mad, or at the least to incur the censure of him that said,

*Delphinum siluis appingit, fluctibus aprum.*

As therefore whilst his wits are yet his owne, it is his surest way (like the King of *Phrygia*) to surrender that gift againe, to leaue his trifling with the holy Scriptures, and to bee no more a censuring Animaduerfor in matters that he hath but small skill in: and that he will heereafter learne to be wise vnto sobriety, *Metiri se quemque suo modulo ac pede verum.*

*est.*



13  
very earnest affection towards such as yee are, and  
dedicated them vnto one right worthy Gentle-man  
of your Society in steed of all, euen for your sakes  
I could not suffer my paines and good will towards  
you, to be so scornfully trampled vnder foot (with-  
out some gaine-saying) and prated out of conceit  
with cauilling only, and multiplicity of vaine words  
and peeuish brauadoes, The Lord prosper you in  
all laudable knowledge and vertuous practise.

*Yours in all hearty affection,*

W. BARLOW.



Aristarchicall censuring of my Advertisements.

*Nil dignum tanto feret hic promissor biatu.*

And for my iust defence, I will rehearse but these few things (yet such as are of principall importance in this Art) whereas I could name diuers other.

I was the first that made the inclinatory instrument transparent, and to bee vsed pendant, with a glasse on both sides, and a ring on the top, whereas Doctor Gilberts hath but of one side, and to bee set on a foot. And moreover, I hanged him in a compass box, where with two ounces waight he will be fit for vse at sea.

Another is, that I was the first that found out and shewed the difference betweene iron and Steele, and their tempers for magneticall vses, which hath given life and quickning, vniuersally to all magneticall instruments whatsoever.

I was also the first that shewed the right way of touching magneticall needles.

I was the first that found out and shewed the peccing and cementing of Loadstones.

I was the first that found out and shewed the reasons why a Loadstone being double capped, must take vp so great waight.

These things (ye worthy Gentle-men) haue I mentioned onely to give you content and satisfaction: For although my magneticall knowledge be no manner of way gainefull vnto me, as all that are acquainted with me, know how little I doe esteeme of it in any such respect, yet forasmuch as I haue published my Magneticall Advertisements of my  
very